

Aluminum Acoustical Louver in 6" frame design Model UEB-06

Design Features – Sound attenuating insulated blades provide a dual function of weather protection and airborne sound reduction. The stepped blade provides additional weather protection than our straight blade design.

STANDARD CONSTRUCTION

ALL MATERIAL – EXTRUDED ALUMINUM 6063-T5 (KB-45)

FRAME

6" thick, .081" extruded aluminum in style #3

BLADES

.081" extruded aluminum approx. 6-1/2" spacing with 22 ga. perforated steel fastened to blade underside.

SOUND INSULATION

6# density pcf mineral wool insulation

FASTENERS

Plated steel, tek screw

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM SINGLE SECTION

60" W x 120"H

MULLION

Visible

MINIMUM SIZE

12" x 12"

UNDERSIZED

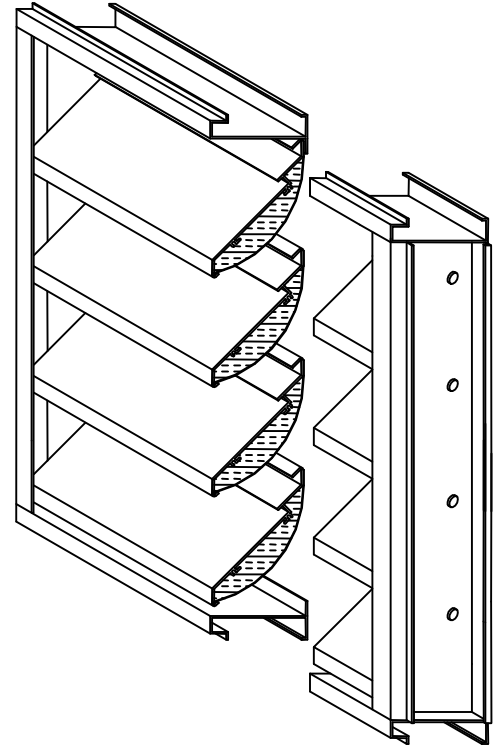
1/4" under ordered size unless specified Exact or Actual

SCREEN

3/4" x .051" flattened expanded aluminum bird screen, no frame

FINISH

Mill



OPTIONAL CONSTRUCTION

MATERIAL – Available in .125" thk. aluminum BLADES and FRAME

SCREEN - Many styles available please consult screen listing

FINISH – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy or enamel, Kynar, or Powder coat.

SPECIAL PURPOSE CONSTRUCTION

Fully welded construction

Security bars

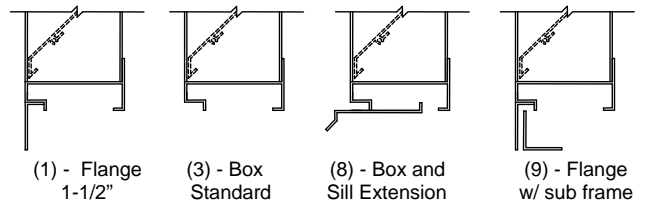
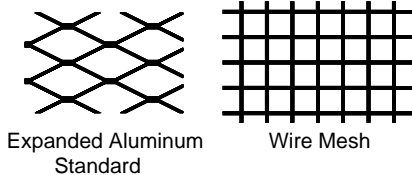
Filter racks

Hinged as walk through door or for swing out for access

** Consult SAFE-AIR/DOWCO for additional technical information.

Octave Bands								
Frequency (hz)	1	2	3	4	5	6	7	8
	63	125	250	500	1000	2000	4000	8000
Free Field Noise Reduction (DB)	9	8	8	9	11	16	15	18
Transmission Loss (DB)	3	2	2	3	5	10	9	12

TYPICAL SCREEN STYLES



FRAME STYLES

DATE	ARCHITECT				CUSTOMER
PROJECT					
ITEM	QTY	W	H	DESCRIPTION	

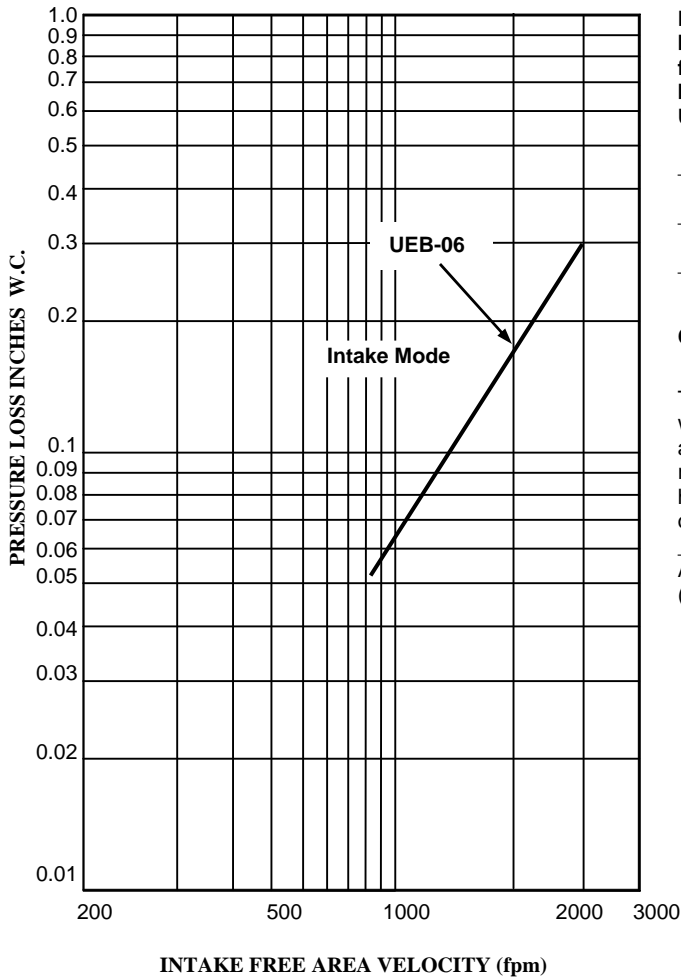


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UEB-06 PERFORMANCE SPECIFICATIONS

All tests performed at an independent laboratory and based on AMCA standard 500 – 91 for air performance and water penetration.

AIR PERFORMANCE



CALCULATING PRESSURE LOSS

Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance" graph, knowing the sq. ft. of free area of the louver. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the "air performance" graph.

_____ in. W.C. Max. Pressure Loss Intake or Exhaust
 _____ FPM (Free Area Velocity From "Air Performance" Graph)
 _____ CFM / _____ FPM Free Area Velocity = _____ Sq. Ft. Free Area

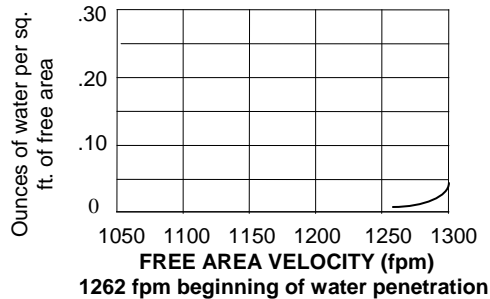
CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 1262 fpm for UEB-06, and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory test on a 48" x 48" test sample subjected to hypothetical rainfall conditions. To determine the free area (in sq. ft.) based upon a known volumetric flow rate in CFM;

_____ CFM / _____ FPM = _____ SQ. FT. FREE AREA
 (System Requirements)

Water Penetration Graph
 in oz. of water per sq. ft. of free area over a 15 min. test period

	.01	.02	.05	.1	.2	.3 (H2O)
1262	1300	1350	n/a	n/a	n/a	(fpm)



WIDTH FREE AREA CALCULATIONS IN SQ. FT.

WIDTH		12	18	24	30	36	42	48	54	60
12	4"	0.21	0.33	0.46	0.58	0.70	0.83	0.95	1.08	1.20
	6"	0.22	0.35	0.48	0.61	0.74	0.87	1.00	1.13	1.26
18	4"	0.34	0.55	0.76	0.97	1.17	1.38	1.59	1.80	2.00
	6"	0.36	0.58	0.80	1.02	1.23	1.45	1.67	1.89	2.10
24	4"	0.50	0.80	1.10	1.39	1.70	1.99	2.29	2.59	2.89
	6"	0.52	0.84	1.15	1.46	1.78	2.09	2.40	2.72	3.03
30	4"	0.64	1.03	1.41	1.80	2.18	2.57	2.95	3.34	3.72
	6"	0.67	1.08	1.48	1.89	2.29	2.70	3.10	3.51	3.91
36	4"	0.79	1.26	1.73	2.21	2.68	3.15	3.63	4.10	4.57
	6"	0.83	1.32	1.82	2.32	2.81	3.31	3.81	4.30	4.80
42	4"	0.93	1.50	2.06	2.61	3.17	3.73	4.30	4.86	5.41
	6"	0.98	1.57	2.16	2.74	3.33	3.92	4.51	5.10	5.68
48	4"	1.08	1.72	2.37	3.02	3.67	4.31	4.96	5.61	6.26
	6"	1.13	1.81	2.49	3.17	3.85	4.53	5.21	5.89	6.57
54	4"	1.23	1.96	2.70	3.43	4.16	4.90	5.63	6.36	7.10
	6"	1.29	2.06	2.83	3.60	4.37	5.14	5.91	6.68	7.45
60	4"	1.37	2.19	3.01	3.84	4.66	5.48	6.30	7.12	7.94
	6"	1.44	2.30	3.16	4.03	4.89	5.75	6.61	7.48	8.34
66	4"	1.51	2.42	3.33	4.24	5.15	6.06	6.97	7.88	8.78
	6"	1.59	2.54	3.50	4.45	5.41	6.36	7.32	8.27	9.22
72	4"	1.66	2.66	3.65	4.65	5.65	6.64	7.64	8.63	9.63
	6"	1.74	2.79	3.83	4.88	5.93	6.97	8.02	9.06	10.11
78	4"	1.81	2.89	3.97	5.06	6.14	7.22	8.30	9.39	10.47
	6"	1.90	3.03	4.17	5.31	6.45	7.58	8.72	9.86	10.99
84	4"	1.95	3.12	4.30	5.47	6.63	7.80	8.97	10.14	11.31
	6"	2.05	3.28	4.51	5.74	6.96	8.19	9.42	10.65	11.88
90	4"	2.10	3.35	4.61	5.87	7.12	8.38	9.64	10.90	12.16
	6"	2.20	3.52	4.84	6.16	7.48	8.80	10.12	11.44	12.77
96	4"	2.24	3.59	4.93	6.28	7.62	8.96	10.31	11.66	13.00
	6"	2.35	3.77	5.18	6.59	8.00	9.41	10.83	12.24	13.65